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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,012	02/10/2006	Peter Neugebauer	032301440	7386
	7590 09/02/200 BRELL & RUSSELL	99	EXAMINER	
SUITE 3100, P.	ROMENADE II		CORNO JR, JAMES A	
1230 PEACH II ATLANTA, GA	REE STREET, N.E. A 30309-3592		ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			09/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/568,012	NEUGEBAUER ET AL.	
Office Action Summary	Examiner	Art Unit	
	JAMES CORNO	1793	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPOWHICHEVER IS LONGER, FROM THE MAILING IF Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed I the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 13. 2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1-4,6-8 and 10-37 is/are pending in 4a) Of the above claim(s) is/are withdress 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,6-8 and 10-37 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers	awn from consideration. /or election requirement.		
 9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the Examin 	ecepted or b) objected to by the e drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bure. * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat fority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 25, 2009, has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4, 6-8, 10-14, 20, 26-27, and 32-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roman (US Patent No. 6,171,602) in view of Deller et al. (US Patent No. 5,776,240), Hasenzahl et al. (WO 03/037379 A1), and Degussa press release titled "Dry Binder - A New Concept for Pressed Powders," (June 12, 2003; hereinafter referred to as "the press release"). Roman teaches powder comprising silanized porous silica granules used as carriers of various foodstuff additives. Roman does not teach the use of pyrogenically prepared silica. Deller teaches pyrogenically

prepared silica granules which can be used as adsorption media (col. 1, lines 28-29). In addition, the press release teaches that the granules of Deller (Aeroperl) are known to be useful as adsorbates, and Hasenzahl teaches that such pyrogenically prepared silica is superior to precipitated silica, which typically has an unacceptably high water content (p. 4, lines 2-8). It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Deller's granules into Roman's powder because they are known to be useful as an adsorbate and to be superior to precipitated alternatives.

Regarding claims 2, 11, and 26, Roman teaches the use of riboflavin, which is both a food dye and a feedstuff additive.

Regarding claims 4, 8, and 10, Deller teaches adsorbate particles silanized with any of the claimed silane compounds.

Regarding claims 6-7, 32, and 37, Deller teaches exactly the claimed dimensions and characteristics.

Regarding claims 12-13 and 20, Roman teaches the use of ascorbic acid, which is an antioxidant, a food preservative, and an acid.

Regarding claim 14, Roman teaches the use of glyceryl ester derivatives as emulsifiers.

Regarding claim 25, Roman teaches the use of cinnamates, which are aroma agents.

Regarding claim 27, Roman teaches the use of cysteine, which is a chemical intermediate for the production of various food additives.

Regarding claim 33, Roman teaches the use of turmeric oleoresin.

Art Unit: 1793

Regarding claim 34, Roman teaches the use of beta-carotene, which is a free radical interceptor.

Regarding claims 35-36, Roman teaches that the silica granules absorb liquids in approximately a 1:1 ratio (col. 4, lines 62-67).

Claims 1, 3, 28, and 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Minemoto (JP 02049707 A) in view of Deller, Hasenzahl, and the press release. Minemoto teaches a powder of boric acid adsorbed on porous silica granules. Boric acid acts as both an insecticide and a fungicide. Minemoto does not teach the use of pyrogenically prepared silica. Deller teaches pyrogenically prepared silica granules which can be used as adsorption media (col. 1, lines 28-29). In addition, the press release teaches that the granules of Deller (Aeroperl) are known to be useful as adsorbates, and Hasenzahl teaches that such pyrogenically prepared silica is superior to precipitated silica, which typically has an unacceptably high water content (p. 4, lines 2-8). It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Deller's granules into Minemoto's powder because they are known to be useful as an adsorbate and to be superior to precipitated alternatives. In addition, Minemoto's requirements of 10-5000 Å diameter pores, 0.05-3 cm³/g pore capacity, and 1-300 µm grain diameter are all satisfied by Deller's granules.

Claims 1, 19, 21, 29, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al. (US Patent No. 5,654,258) in view of Deller, Hasenzahl,

Art Unit: 1793

and the press release. Park teaches a composition comprising trifluralin (a herbicide) in porous silica carrier particles. Park does not teach the use of pyrogenically prepared silica. Deller teaches pyrogenically prepared silica granules which can be used as adsorption media (col. 1, lines 28-29). In addition, the press release teaches that the granules of Deller (Aeroperl) are known to be useful as adsorbates, and Hasenzahl teaches that such pyrogenically prepared silica is superior to precipitated silica, which typically has an unacceptably high water content (p. 4, lines 2-8). It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Deller's granules into Park's herbicide composition because they are known to be useful as an adsorbate and to be superior to precipitated alternatives.

Regarding claims 19, 21, and 34, Park teaches that the particles may be coated in alkyl napthalene sulfonate sodium salt (col. 4, line 49), which is an alkali salt used as a wetting agent.

Claims 1, 15-18, and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peterson et al. (US Patent No. 6,004,584) in view of Deller and the press release. Peterson teaches a body powder comprising powder carriers such as soy starch, modified corn starch, or microcrystalline cellulose (col. 3, lines 45-50); and binders such as isopropyl or magnesium myristate (col. 6, line 55). Peterson does not teach the use of pyrogenically prepared silica. The press release teaches that granulated fumed silica (e.g. Aeroperl, the material taught by Deller) is an ideal replacement for isopropyl or magnesium myristate as a dry binder in cosmetic

Art Unit: 1793

applications, as it adsorbs the oily components and releases them upon compression. Deller teaches pyrogenically prepared silica granules (Aeroperl) which can be used as adsorption media (col. 1, lines 28-29). It would have been obvious to one of ordinary skill in the art at the time of the invention to use Deller's silica granules as a dry binder in Peterson's body powder because "Dry Binder" teaches that silica granule adsorbates are superior dry binders, and Deller specifically teaches that it is one intended use of the granules.

Regarding claims 15-18, microcrystalline cellulose can be used as a gelling agent, thickener, binder, or stabilizer.

Regarding claim 22, the modified corn flour is an antilumping agent.

Regarding claim 23, soy starch contains glutamic acid, which is a flavor intensifier.

Claims 1 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Technical Bulletin Pigments No. 31 (Degussa AG, November 1995) in view of Deller Hasenzahl, and the press release. The Technical Bulletin teaches that silanized silica is useful as an adsorbate for molasses in order to make a free-flowing powder. The Technical Bulletin does not teach the use of pyrogenically prepared silica granules. Deller teaches pyrogenically prepared silica granules which can be used as adsorption media (col. 1, lines 28-29). In addition, the press release teaches that the granules of Deller (Aeroperl) are known to be useful as adsorbates, and Hasenzahl teaches that such pyrogenically prepared silica is superior to both precipitated silica, which typically

Application/Control Number: 10/568,012 Page 7

Art Unit: 1793

has an unacceptably high water content (p. 4, lines 2-8), and to loose pyrogenic silica adsorbates, which typically have insufficient flowability (p. 3, lines 22-33). It would have been obvious to one of ordinary skill in the art at the time of the invention to use Deller's granules as an adsorbate for mollases as taught in the Technical Bulletin because they are known to be useful as an adsorbate and to be superior to loose or precipitated alternatives.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES CORNO whose telephone number is (571)270-5829. The examiner can normally be reached on Monday-Thursday 9:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Melvin Curtis Mayes can be reached on 571-272-1234. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/568,012 Page 8

Art Unit: 1793

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAMES CORNO/ Examiner, Art Unit 1793

August 29, 2009

/Melvin Curtis Mayes/ Supervisory Patent Examiner, Art Unit 1793